

Approved for use through 10/31/2002. OMB 0651-0032
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<p>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</p> <p><input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)</p>		Attorney Dock t Numb r		45419
		First Named Inventor		ZOU, Jitao et al.
		COMPLETE IF KNOWN		
		Application Number	10/088,079	
		Filing Date	March 21, 2002	
		Art Unit		
		Examiner Name		

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TRANSGENIC MANIPULATION OF SN-GLYCEROL-3-PHOSPHATE AND GLYCEROL PRODUCTION WITH A FEEDBACK DEFECTIVE GLYCEROL-3-PHOSPHATE DEHYDROGENASE GENE

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

09/21/2000

as United States Application Number or PCT International

Application Number	PCT/CA00/01096	and was amended on (MM/DD/YYYY)	(if applicable).
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I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



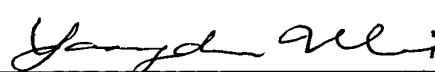
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input checked="" type="checkbox"/>		Customer Number or Bar Code Label				OR <input type="checkbox"/> Correspondence address below	
02048 PATENT TRADEMARK OFFICE							
Name EDWIN J. GALE							
Address KIRBY EADES GALE BAKER BOX 3432, STATION D							
City OTTAWA				State ONTARIO		ZIP K1P 6N9	
Country CANADA			Telephone (613) 237-6900			Fax (613) 237-0045	
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>							
NAME OF SOLE OR FIRST INVENTOR :				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name Jitao (first and middle [if any])				Family Name ZOU or Surname			
Inventor's Signature 						Date April 24, 2002	
Residence: City SASKATOON <i>CAY</i>			State Saskatchewan		Country CANADA		Citizenship CA
Mailing Address 1619 ACADIA DRIVE							
City SASKATOON			State Saskatchewan		ZIP S7H 5K7		Country CANADA
NAME OF SECOND INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name Yangdou (first and middle [if any])				Family Name WEI or Surname			
Inventor's Signature 						Date April 25, 2002	
Residence: City SASKATOON <i>CAY</i>			State Saskatchewan		Country CANADA		Citizenship CA
Mailing Address 1514 MAIN STREET, APT. 8							
City SASKATOON			State Saskatchewan		ZIP S7J 4C3		Country CANADA
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.							

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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">Cyril</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">PERIAPPURAM</div>	
Given Name		Family Name or Surname	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">Cyril Periappuram</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">April 26, 2002</div>	
Inventor's Signature		Date	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">SASKATOON SK</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">CANADA CA</div>	
Residence: City		Citizenship	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">AMES IA</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">USA</div>	
State		Country	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">101-536 4th AVENUE NORTH</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">2804 STANGE ROAD APARTMENT 2 AMES IA 50010</div>	
Mailing Address		Mailing Address	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">2238 MOLECULAR BIOLOGY BUILDING</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">IOWA STATE UNIVERSITY</div>	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">SASKATOON AMES</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">SK IA</div>	
City		State	
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City		State	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">AMES</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">CANADA</div>	
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<div style="border-bottom: 1px solid black; padding-bottom: 5px;">540 NESSLIN CRESCENT</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">ZIP 50011-3260</div>	
City		ZIP	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">SASKATOON</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">CANADA</div>	
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City		State	
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City		State	
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City		State	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">SASKATOON</div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">CANADA</div>	
City		Country	
<div style="border-bottom: 1px solid black; padding-bottom: 5px;">SASKATOON</div>			

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	45419
	First Named Inventor	ZOU, Jitao et al.
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
	Examiner Name	

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TRANSGENIC MANIPULATION OF SN-GLYCEROL-3-PHOSPHATE AND GLYCEROL PRODUCTION WITH A FEEDBACK DEFECTIVE GLYCEROL-3-PHOSPHATE DEHYDROGENASE GENE

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

09/21/2000

as United States Application Number or PCT International

Application Number PCT/CA00/01096 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

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DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒ Customer Number OR ☐ Correspondence address below

EDWIN J. GALE - KIRBY EADES GALE BAKER

Name

Address BOX 3432, STATION D

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ON

K1P 6N9

City

State

ZIP

CANADA

(613) 237-6900

(613) 237-0045

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR : ☐ A petition has been filed for this unsigned inventor

JITAO

ZOU

Given Name

Family Name
or Surname

(first and middle [if any])

Inventor's
Signature

Date

SASKATOON

SK

CANADA

CA

Residence: City

State

Country

Citizenship

Mailing Address 1619 ACADIA DRIVE

SASKATOON

SK

S7H 5K7

CANADA

City

State

ZIP

Country

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

WEI

YANGDOU

Given Name

Family Name
or Surname

(first and middle [if any])

Inventor's
Signature

Date

SASKATOON

SK

CANADA

CA

Residence: City

State

Country

Citizenship

Mailing Address 1514 MAIN STREET, APT. 8

SASKATOON

SK

S7J 4C3

CANADA

City

State

ZIP

Country

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
--------------------	---

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
PERIAPPURAM		CYRIL	
Given Name	Family Name or Surname		
Inventor's Signature	SK	CANADA	Date
SASKATOON	State	Country	CA
Residence: City			
101-536 4th AVENUE NORTH			
Mailing Address			
Mailing Address		SK	S7K 2M7
SASKATOON	State	ZIP	CANADA
City	Country		
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
SELVARAJ		GOPALAN	
Given Name	Family Name or Surname		
Inventor's Signature	SK	CANADA	Date
SASKATOON	State	Country	CA
Residence: City			
540 NESSLIN CRESCENT			
Mailing Address			
Mailing Address		SK	S7J 4V5
SASKATOON	State	ZIP	CANADA
City	Country		
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
DATLA		RAJU	
Given Name	Family Name or Surname		
Inventor's Signature	SK	CANADA	Date
SASKATOON	State	Country	CA
Residence: City			
422 TENNANT WAY			
Mailing Address			
Mailing Address		SK	S7H 5C4
SASKATOON	State	ZIP	CANADA
City	Country		

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Please type a plus sign (+) inside this box → ☐

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	
Filing Date	
First Named Inventor	ZOU, Jitao et al.
Title	TRANSGENIC MANIPULATION ...
Group Art Unit	
Examiner Name	
Attorney Docket Number	45419

I hereby appoint:

☐ Practitioners at Customer Number →

Place Customer
Number Bar Code
Label here

OR

☒ Practitioner(s) named below:

Name	Registration Number
Edwin J. Gale	28,584
Norris M. Eades	25,263
John A. Baker	26,656
Kimberley A. Lachaine	33,319

Robert K. Feutlinske 37,994
as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all
business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number →

Place Customer
Number Bar Code
Label here

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Edwin J. Gale				
Address	Kirby Eades Gale Baker				
Address	Box 3432, Station D				
City	Ottawa	State	Ontario	Zip	K1P 6N9
Country	CANADA				
Telephone	(613) 237-6900	Fax	(613) 237-0045		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	
Signature	
Date	

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/81 (02-01)
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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/088,079
Filing Date	March 21, 2002
First Named Inventor	ZOU, Jitao et al.
Title	TRANSGENIC MANIPULATION...
Group Art Unit	
Examiner Name	
Attorney Docket Number	45419

I hereby appoint:

☐ Practitioners at Customer Number →

Place Customer Number Bar Code Label here

OR

☒ Practitioner(s) named below:

Name	Registration Number
Edwin J. Gale	28,584
Norris M. Eades	25,263
John A. Baker	26,656
Kimberley A. Lachaine	33,319

Robert K. Feutlinske 37,994
as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number →

Place Customer Number Bar Code Label here

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Edwin J. Gale				
Address	Kirby Eades Gale Baker				
Address	Box 3432, Station D				
City	Ottawa	State	Ontario	Zip	K1P 6N9
Country	CANADA				
Telephone	(613) 237-6900	Fax	(613) 237-0045		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Pat Mortimer, Secretary General
Signature	<i>P. Mortimer</i>
Date	23 April 2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: NATIONAL RESEARCH COUNCIL OF CANADA
Application No./Patent No.: 10/088,079 Filed/Issue Date: March 21, 2002
Entitled: TRANSGENIC MANIPULATION OF SN-GLYCEROL-3-PHOSPHATE AND GLYCEROL...
National Research Council of, a Government Agency,
Canada (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

23 April 2002
Date

Pat Mortimer

P. Mortimer
Signature

Secretary General

Title

COPY

45419

U.S. ASSIGNMENT
NEW DES/PAT APPLICATION
INDIVIDUAL(S) TO CO/IND

I/WE, Jitao ZOU of 1619 Acadia Drive, Saskatoon, Saskatchewan S7H 5K7, CANADA;
Yangdou WEI of 1514 Main Street, Apt. 8, Saskatoon, Saskatchewan S7J 4C3, CANADA;
Apt # 2, 2804 Stange Road, Ames, Iowa, 50010, USA
Cyril PERIAPPURAM of 101-536 4th Avenue North, Saskatoon, Saskatchewan S7K 2M7,
CANADA; Gopalan SELVARAJ of 540 Nesslin Crescent, Saskatoon, Saskatchewan S7J 4V5,
CANADA and Raju DATLA of 422 Tennant Way, Saskatoon, Saskatchewan S7H 5C4,
CANADA

(name and address of assignor(s))

in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, do hereby sell and assign to:

NATIONAL RESEARCH COUNCIL OF CANADA of 1200 Montreal Road,
Ottawa, Ontario K1A 0R6, CANADA

(name and address of assignee)

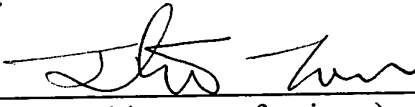
hereinafter called the assignee, the entire right, title and interest in and to the invention entitled
**TRANSGENIC MANIPULATION OF SN-GLYCEROL-3-PHOSPHATE AND GLYCEROL
PRODUCTION WITH A FEEDBACK DEFECTIVE GLYCEROL-3-PHOSPHATE
DEHYDROGENASE GENE**

as disclosed in the United States patent application executed concurrently herewith, and in and to said United States patent application, and in and to any division, continuation or continuation-in-part of said application, and in and to any and all Letters Patent and reissues and extensions thereof, in and for the United States, Canada, and all other countries, the same to be held and enjoyed by the said assignee, its successors, assigns, or legal representatives to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made.

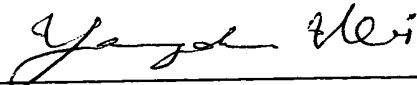
SIGNED at Saskatoon, SK and Ames, Iowa

this _____ day of _____.

Date : April 24, 2002
Witness : Charlotte Atuo
Address : 1410 Cumberland Ave S.
Saskatoon, SK
S7H 2M1


(signature of assignor)
Jitao ZOU

Date : April 25, 2002
Witness : Charlotte Atuo
Address : 1410 Cumberland Ave S.
Saskatoon, SK S7H 2M1


(signature of assignor)
Yangdou WEI

Date : APRIL 26 2002

Witness : R. G. Brachola

Address : 3800 Phoenix
Ames, IA, USA
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Cyril Periappuram

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Cyril PERIAPPURAM

Date : April 24, 2002

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Gopalan SELVARAJ

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Gopalan SELVARAJ

Date : April 24, 2002

Witness : Charlotte Atus

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Raju DATLA

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Raju DATLA